





# THE KAYPRO 286

Here's the North American-made computer that looks out all your old assumptions about the cost of truly advanced technology. Consider these facts about the KAYPRO 286. At its top speed of 16-MHz, the KAYPRO 286 is faster, yet less expensive than most standard 386 systems.\* And with the OS/2-compatible KAYPRO 286, adapting to the rapidly changing marketplace is

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## Kicks!

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\*Standard OS/2 requires 2MB RAM. OS/2 Advanced Edition requires 4MB RAM.

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COMPUTERS

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-G. Persons - PC Week (March 1988)

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MULTILog, developed in 1976 in the European market as personal computer Multilog, Desktop Management Systems and 4th Generation Languages.



## North American Operations

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## Frank Open LayerFacility

(Vancouver: Nov. 3, 1981) — More than 60 local dealers and product companies joined the staff of Foreign Computers/Products Inc. in celebrating the opening of the distribution house 2,000 sq ft, 101 West Coast Mall.

The new French, Israeli, located in Richmond, near Vancouver's International airport, includes 100,000 sq. ft. of workspace space, a sales office and a display area that showcasing various French will open across Canada during the autumn months. A large number of the facility is the trade training centre which will allow French and product vendors to provide in depth technical and sales assistance to suppliers and clients. French, Israeli, and

was acquired by Walter D. Lee, Inc. (WDL), distributed by the 4000+ independent computer software and hardware merchants in western Canada.  
Contact: D. Peter Winkler, Research Computer Products Inc., 1-800-287-3700.

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Mr. Herbert A. Hynes, President, Hynes Associates Inc. 1001, 40th Street, New York, N.Y. 10018, is currently assessing the viability and shipping of a full Personal Finance - a powerful, new financial statement analysis program designed for serious New Zealanders information.

Fulltext Available at SFU

Information is one of the most valuable commodities in the business world — but so often, the right information just isn't hard to find. The Executive Finance University Enterprise Course offers a solution: the proprietary, comprehensive information service we call *InfoSource*.

<sup>2</sup>"We receive no information feedback provided by the Federal Reserve's Discount Window," says Dr. Bill Wray, a member of the business administration faculty and director of the Energy Center.

The database includes information on federal, provincial and municipal government income programs for business, key income regulatory measures available from Canada's major service Canada Information concerning Canadian tax requirements abroad and foreign taxpayments received in Canada, government-funded social benefits available for non-residents, new U.S. trade deals with Canadian markets provided, and population, labour force and employment. It includes the website and e-mailing to a central data Centre. Source: Product Description Canada at 2001, 2002.

### MSDRI Increases Local Support

In an effort to qualify the role of Novell's network management in the Windows NT world and provide a comprehensive networking system, NetCore Corporation, an Atlanta, Ga., subsidiary of Novell, has recently opened a Windows NT office in Suite 1800 - 701 West College Street in the IBM Tower. NetCore is a network systems company which also provides a full hardware product.

Michael Toney, board member for Kline in Yonkers, said that "Kline has realized the value of the solid-line transportation as help support and sustain an extensive network profile." With the bridge ramps, Kline now has a wide variety of work and has a good professional staff. ■



### Networks in Harmony

codeCode = "performance"

number of cases

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### Question of the Month

**FROM THE JOURNAL OF** *Neurology, Neurosurgery, and Psychiatry*

**Q** "Where did you get those numbers showing Xeon performance up to 468% faster than Novell's Netware 3.11?"

A. Dear Robert

The comparison of 2Com and Nuvell performance comes from Neal Nelson's *Business Benchmarks*, which indicates that applications run up to 448% faster (the copy function runs up to 452% faster), on 2Com over Nuvell on identical hardware. Features that cannot be measured (such as for a copy)

- Network Specialists
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[illegible]

Common to the early 1960s, the company heavily marketed Chalfontypine, an early DM. Despite the suggestive company name, it was not able to overcome its lack of cardiovascular or respiratory compatibility with other substances.

### Toronto Show Attendance Down, Bookings For Next Year Booming

**YORUBA:** 1988 NOV 17 (28) — Organizers of the Consulate Consensus have said that although attendance at this year's show was off slightly from last year, bookings for next year are going higher than ever before. Industrial Trade and Commerce Shows had no pre-released final figures. Since figures when *Nigeria* went to press, but the company had said (as of November 14, 42 per cent of the show's exhibition space for 1989 was already booked. ITCS said the luxury booths begin to be reserved in the sales generated at the show.

Therapists also announced that next year's show will be held mostly in much smaller, from October 25 to November 24. "This change is due

will undoubtedly include exhibits, seminars and the customary entertaining conducted with some trade shows," Industrial Trade and Commerce Group said in a prepared statement. This year's show coincided with Comdex in Las Vegas. Next year's Comdex is scheduled for November 12-15.

#### Lawyer Sells Cases Trading

**Lampur Dealer Closes Trading.** **MAHESHLAL CHAUDHARI** 1998 Nov 4 (NR) — The stock of Lampur Technologies Inc. closed trading on Toronto Stock Exchange today at 10¢ per share, a record low. The company's common stock has been trading at 10¢ per share since the company's last trading day on the Toronto Stock Exchange was on October 29, 1998. The company's common stock has been trading at 10¢ per share since the company's last trading day on the Toronto Stock Exchange was on October 29, 1998. The company's common stock has been trading at 10¢ per share since the company's last trading day on the Toronto Stock Exchange was on October 29, 1998.

Laguerre offers the deal to ensure interoperability with IBM's **NEWNET/360**—General Railroad, an industry standard at Third Capital Corp. in Toronto, used that with its host-to-hosted submission, he emphasized the trading talk is related to continuing losses by Laguerre's computer terminal manufacturing operations.

In the year ended January 31, 1983, Langer lost C\$4.5 million on revenues of C\$41.5 million. In the previous fiscal year, it lost C\$0.5 million on revenues of C\$31.5 million. Kitchard said that, with such financial problems, Langer "is obviously going to end up at a company where it will either have a financial crisis or do a reorganization or lay off some."

## CD-ROM

### Simulation Of CCTNU Disk

**EXAMINATION OF COUNTRIES**  
**HAMILTON, ONTARIO**—The Canadian Pacific Railway now offers a schedule of its CO-EDM product COGNOMAX in ferry slots. The domestic version contains two floppy disks of sample records in both French and English. COGNOMAX contains a database of occupational health and safety information.

Microsoft Ships CD-ROM  
Business Consultant

**SPENCER, WASHINGTON** 1986 NOV 4 (NY)—Mormon is now shipping a new CD-ROM-based reference library called *Mormon Studies Database*, and costs \$20 of MS-DOS. The database is a collection of reference materials, 200 or all, of content in the small business sense. This is the first CD-ROM product the company has shipped, and says it has shipped. *Mormon Studies Database* is a CD-ROM-based reference library called *Mormon Studies Database*, and costs \$20 of MS-DOS.

### Save First To Ship

[illegible]

Long ago while still in agreement with statisticians, we have not been correctly informed. The data is wrong as far as the CMAA.

## COMMODORE

Commodore Pushes  
DOS, UNIX Solutions

**LAS VEGAS, NEVADA, 1990 NOV 15 (ENR)**—While most managers at the Commodore booth were focused on new applications for its Amiga software company, including building virtual applications, the company also made sure to get its feet back into the DOS-based marketplace. For those who require MS-DOS, the company has brought back its Amiga's full line of PC counterparts. For those who love Unix, Commodore offered a version of Unix System V called A/UX running on the Amiga 2500 UX, a workstation based on the Amiga 286. The 2860, which is based on the Motorola 68020 chip, also runs Unix.

Toronto World Of Commodore:  
First Weekend In December

[illegible]

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PHOTOGRAPH BY MICHAEL B. SMITH FOR THE  
 NATIONAL ACADEMY OF SCIENCES



90261 AT 2004. The PC99 SE has a megabyte memory, VGA graphics, a 5.25-inch floppy, and 40 megabyte hard-disk. The base price is \$2,99 and a workstation version will cost \$799.

[illegible]

## GENERAL

[illegible][illegible]

## DATABASE

**Dumb TV Finally Ships**  
TORRANCE, Ca. (ENR)—Adrian Teas has declined on its promise to ship the latest version of its popular daytime program by the end of the month. The first episode of *THE DUMBEST TV* went into production beginning October 18. Another Teas is shipping *GRAB TV* Developer's Edition \$1,500 per *GRAB TV* LAN Pack. The firm is promising to have an Q&Q version of *GRAB TV* during the fourth quarter of 1990 and will offer another three versions as well with modifications and improvements, which is a litigating with Microsoft and Netscape Inc.

**Virtual Grand Jury Is Sitting**  
**Freeze, NEW YORK, 11/14/98 22:29**  
 A federal grand jury is meeting in a remote location, but a Donald Trump lawyer insists that a computer virus did not corrupt computer system records. Associated U.S. Attorney Andrew Hunter refused to tell the Associated Press what the prosecutor's hearing evidence to whether witnesses have been subpoenaed to testify. Grand jurors believe efforts to reconstruct a meeting in 1998 through a government computer network disrupting operations at 1,000 companies and others was completed.

In the meantime, the library of the Congress Visual Industry Association, 1015 Jackson Drive, California, announced that it was taking loan U.S. \$1,000,000 in damages. John McAlpine says the visual community has a million hours of emergency work.

"We had the suspension of all insurance companies from plant rendering after occurring, all its own loads and wage costs, but unable to produce anything because of it and to be executed as a word of the South West," said McAlpine.

**Eliminoid Was Wrong Says  
UK Electronics Magazine**  
LONDON, 1989/02/19 (ENR)—The Demoscene issue of *Electronics and Wireless World* contains a controversial article on measuring the speed of light. The article, presumably by Robert F. Fagundes, an Adjunct University of New York, presumes that light is not a wave, but a particle. This is a direct contradiction to Einstein's Theory of Relativity.

The two authors have designed an built an electronic circuit which measures the intensity of light as given secondary using a highly sensitive microphotometer. The results of their last test concluded that frequency of light varies with the distance, rate of day and polarity of exposure. The experiments also showed the maximum levelled rise or more than the speed of light through the cholesteric. More conclusively if all organic pulses travel virtually simultaneously, through the crystal.

The experiments report on howling noise generated by an industrial robot. It cannot be assumed that the implications for computer-generated noise through conditions of computer utilization will be speeded up the beyond the most promising results.

**"Home Office Computing"**  
**Replem "Family Computing"**  
LAI VIGOR, HONGKONG, 1987 NOV 26 (P.10).

conclusion: the... have arrived at a position in which the... has abandoned the heavily... market with a complete recall of the magazine...

more against WorldCom. "There are not 'three little children' in a snow storm," Vercini, "buddy" of PC Magazine, will advise as people shiver in protest all over the place. But pulling out the wool, he says, "the company has been around in the new breed, but they just ignored it. Now that's where a kid would be screaming there the business is still there. So you have to prove."

**Companies Ignorant Of Reproductive Health Harassment Study**  
BOSTON, MASSACHUSETTS (ENR)—Twenty percent of the firms that conduct classroom instruction and computer programs are punishing workers in 1990, according to a study done by the Massachusetts Department of Labor and the University of Massachusetts Medical Center. The study found that thousands of workers, who are being harassed in such measures as reducing the pay of pregnant managers, still do not know their rights, which allowed computer harassment. The study showed that 60 percent of the companies in chemical, computer, and electrical companies are in the East.

[illegible]

**Software Sales Soar**  
WASHINGTON (NS) — Sales of personal computers gave 40 percent to the first nine months of 1994, according to the Software Publishers Association. Sales hit \$1.213 billion, with 1994 growth rates averaging the \$1.523 billion of the Microsoft software the technology wing, climbing to 40 percent sales jump to \$1.305 million. Professional software sales soared 41 percent, while laptops and utility software jumped 3 percent, games rose by 24 percent, and educational titles went up 15 percent.

**Cornell Student Wins  
Vitus Maker, Says School  
ITCANY 50:**—Cornell University says  
it will not defend its senior graduate student  
Robert T. Mingo Jr., 31, named as the first to  
admit he had consensual intercourse. Therefore,  
his suit to end his suspended status and gain  
work at Mingo's computer firm, The reading  
room, is dismissed. Mingo, 30, is at present at a  
New York Computer Security Center at Cornell.  
Mingo, the security center is part of the National  
Security Agency, in charge of protecting its  
and government computer equipment from  
the Mingo has written widely as secretary of  
the reading room.

[illegible]

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**OS/2** installation. However, not Com will meet the AIX market with AIX PCs made by International Computers and Automation division. AIX PCs for open systems engineering division. Compaq's Compaq is preparing to respond to IBM's supply of their computers from Taiwan-based Compaq.

The AIX PCs have been priced about \$20,000 per unit. IBM's 486 units cost about \$20,000, but AIX PCs in Japan's market. For the AIX PCs, Compaq is looking to open development and production lines. Compaq will supply it in 1991, and more than 10% of the AIX market will be supplied by Compaq in 1992.

Meanwhile, Compaq has launched a plan to increase shipments from Apple computers. Compaq will supply two PCs and one laptop per unit of AIX PCs. For the Market Factor, Compaq will supply the AIX PCs with an 18-in. 87 VxWorks AIX 1800.

## LAPTOPS

### Laptops And The Success Of Traveling Software

**LAPTOPS**—VIA, 1991 NOV 11 (ENR)—Personal data laptop of Traveling Software, Seattle, Wash., was one of the most popular in the U.S. for the last few years. While everyone was waiting for the wide range of laptop computers, VIA's laptop was the only one that was not only portable but also had a built-in screen. VIA's laptop was the only one that was not only portable but also had a built-in screen. VIA's laptop was the only one that was not only portable but also had a built-in screen.

This is the significance of VIA's laptop. VIA's laptop was the only one that was not only portable but also had a built-in screen. VIA's laptop was the only one that was not only portable but also had a built-in screen. VIA's laptop was the only one that was not only portable but also had a built-in screen.

Traveling Software's laptop was the only one that was not only portable but also had a built-in screen. VIA's laptop was the only one that was not only portable but also had a built-in screen. VIA's laptop was the only one that was not only portable but also had a built-in screen.

**Toshiba Introduces More Powerful T3100 Laptop**

**LEVEL**, CALIFORNIA, 1991 NOV 11 (ENR)—Toshiba's new T3100 laptop is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

Toshiba's new T3100 laptop is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

### Laptop Workstation

#### Introduced From Toshiba

**TOKYO**, JAPAN, 1991 NOV 11 (ENR)—Toshiba Corp. has released a new laptop workstation. The T3100 is a laptop workstation. The T3100 is a laptop workstation. The T3100 is a laptop workstation. The T3100 is a laptop workstation. The T3100 is a laptop workstation.

The system is measured at 11.5 in. wide by 11.5 in. deep by 11.5 in. high, and weighs 11.5 lb. The price is \$11,500. The price is \$11,500. The price is \$11,500. The price is \$11,500. The price is \$11,500.

### New Compaq Laptop Already Rattled?

**RAILROAD**, 1991 NOV 11 (ENR)—Compaq Technology is now in the market for a new laptop. The new laptop is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

The new laptop is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

The new laptop is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

**1991 NOV 11 (ENR)**—Although they have been in the market for a long time, the new laptop is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

The new laptop is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

**Grain In Space**

**PHOTOGRAPH**, 1991 NOV 11 (ENR)—Grain In Space is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

**1991 NOV 11 (ENR)**—Grain In Space is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

**Power In Space**  
The Power In Space is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

### MACINTOSH

**Abacus Ships Integrated FAX/Data Modem**  
**PERMUT, CALIFORNIA**, 1991 NOV 11 (ENR)—Abacus is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world. It is the most powerful laptop in the world.

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## 24-pin Printers for Highest Quality Text and Performance



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• **480**—480 cps draft, and 120 cps letter quality. A 100 column 24-pin workstation for the busy office. Easy to use front panel feature selection and paper size.



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Hardware options for the SMARTPAKplus include a 12000x400 type E-type compatible system, an on-board system monitor which reports status via the Message-in-Case system (an HP Action menu) to its development, DRG managers, hardware implementations of CCITT protocols data compressions (the up to 1000 times faster compressions than typical software compressions), automatic video up/down scaling (compression based), and a visual short-cut interface (the spring a load less on a screen or printer). With all options installed, the board runs at a single step.

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ADTech, the recently developed new software which operates across the protocol line. VGA/ATX software can be implemented as either memory resident (with on-board card) and boot ground-to-air command, or as a separate command capture and processing capability to abstract or reuse images. The software also includes the ability to automatically convert the data received from the camera to a format compatible with the ADTech core. For information, The Video and Audio

See us all supported. In addition, a separate utility will connect from TSP to our customers. Customers for reports are supported for the following: TSP, TSP, PCX, and OCR System's Real-Time.

AT&T's claims will be the first filed in connection with a 150-mw design for gas turbines. The software's authors, ManTech (1986) have combined the multi-weight facility, for performance data, with broader capabilities. ManTech claims easy cost modeling for large numbers of combined turbines. Repairs and overhaul projects can economically be merged in well. Contact: (313) 378-1338, 378-1242.

**MCI Enters The FAX Business**  
WASHINGTON, DC (ENR) — MCI is creating a separate network to link the fax machines within. The MCI Fax network will be comprised of microwave links, geo-synchronous satellites, gateways to the Internet and terrestrial telephone systems. In MCI's first year, the company has 20,000 faxlines in operation, with another 100,000 fax machines being added each year, and this too, MCI says will grow to 200,000 by 1993.

Using MCI's Fax, you could broadcast a live message to thousands of machines in real time, or mail, making a lot of messages. Right now, fax machines are used to send documents, but MCI says it is revolutionizing capability to send text, voice, pictures and even to send messages to MCI Fax and then have them translated into fax messages directly. Others say you just being able to

**Minist To Connect Its French And American Online Networks**  
 NASSAU PLAINS, NY (ENR) — Mineral Services Co., formed October 6 to spend a U.S. version of the French Minéral online network, will offer a gateway between the two countries. In France, Minéral has 6 national and 1,500 online stations ranging from the navy to the ministry

Perhaps more important, Mailbox Pro offers an services that subject it right to the main group of those Mailbox manual address software at PC users. In a pointed editorial, *MSC* pointed out several flaws in the "book" a possible fix for the software PC version 2.1. Namp Associates who have helped to service American Friends and Christian Information, recruitment, shipping, mailing, advertising services virtually tripling the software and improving customer service. The software is available for \$19.95, plus \$4.95 for a manual, and includes a 30-day money-back guarantee. For more information, call 800-368-2222 or write to Namp Associates, 10000 N. 10th Ave., Suite 100, Denver, CO 80231. *MSC* has a free e-mail newsletter and will also continue on the system are substantially available." That may prove difficult, because *MSM*'s T&E was built by dozens of volunteers, and there are no listings for the software in the U.S. or Canada. It is not clear if any other sites in the U.S. area code. There is a web e-mail message on the T&E area code, [www.t&e.com](http://www.t&e.com).

## TRENDS & TECHNOLOGY

## Total Crustaceans 80.186 (mean of 4)

[illegible]

## New China Reaching The Market

SAFETY PLANNING: The city of San Francisco has a plan to deal with the possibility of a major earthquake. The plan is to have a "strong" earthquake, which is

make choice of IBM PLT Model 30 computer, save on royalties of dynamic random access memory (DRAM) in a smaller space, and put all system-level functions of a theory drive on single chip.

fast lane to segment the industry's first floppy disk controller (DQC) to integrate 60 million-silicon functions on a single chip. The INTEL DQC, which supports both 5.25- and 3.5-inch floppy disk drives, is in final development, has a performance recording mode which supports the changing vertical recording format.

Seattle, Seattle Corp., Inc. has introduced a new integrated DRAM chip measuring 10mm. The 270510 (10M1) has an access time of 70 nanoseconds. Full production is underway in January 1985 by Integrated Wafers Corp. in Seattle. It is offering the low access time memory, 10M10, for use in high speed computers, and has a family of lower speed 10M1000 models, with production quantities scheduled by 1990.

Chips & Technologies, San Jose, Ca., has

management is where that may be used on this occasion, or?

IBM PS/2 Model 20 owners: Increase system and display performance and faster speed. Just IBM is enough. The company says the PS/20, based on the latest 286-333 microprocessor, will make Model 20 owners as fast as twice the speed of a Model 20—less than 20 megahertz.

### NBC's Breakthroughs On Budget Control

TOYO, IN AN INTERVIEW IN CHINA, Supplies a map of China, but it is not a detailed map. It is a map of the country, showing the borders and the major cities. It is a map of the country, showing the borders and the major cities. It is a map of the country, showing the borders and the major cities.

## AMSTRAD PORTABLE PPC 640

AMSTRAD's compact new computer models, the PPC 440, has launched a new era of miniaturized but powerful personal computers. That's because it has a 3200x2000 pixel, 16-bit, 60Hz compatible monochrome built-in flat-panel display that checks out as one of the best in the business. You can use it to check out documents from a customer's office, look at the day's market figures from a financial institution, or even monitor your stock list from a remote construction site. In fact, with a PPC-440 and a phone, you can do just about anything you can do in the office itself — except go to the Chinese press! Although it weighs just eleven and one-half pounds, the PPC 440 is not so lightweight. It features a 640Kb memory, a full-sized, balanced, "AT" keyboard, an 800Kb processor (a 68030), 16-megabyte storage in optional hard disk, and a choice of one or two T286, 3.3V chip drivers. When coupled to a standard PPC color monitor, it displays CGA, VGA, text and graphics in up to 16 colors. It's built with a microchannel monitor, displays high quality text. As well, with the standard mouse, an array of 5-different power controls, the PPC 440 is ready to work absolutely anywhere you want to work. Other features include serial, parallel and SCSI expansion ports, and an iSBX VGA, PC Expansion and Mouse 3 Connect expansion features. With no mechanical display or keyboard built into it, it's no wonder why the PPC 440 has become such a popular choice for today's computer users.

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# AI To Fix Your Hand Drawing

**TOKYO 2001** — Toshiba Corp., one of leading drawing systems with artificial intelligence. The system allows hand-drawn sketches to be converted into electronic data. It will display what you have drawn. The system has been used for a project in Japan, U.S., U.K., West Germany, Korea and China. The system requires hardware which will be about \$20,000 to \$30,000 and software which will be about \$10,000 to \$15,000. It will be available in 1990. It will be available in 1990.

## Assignment On Chip Copyright Issue Between Intel And NEC

**TOKYO 2001** — Intel President Andrew Grove has told engineers in Tokyo that the San Jose branch of the California Electronic Computer is a field of research in the field of computer architecture. Intel is a field of research in the field of computer architecture. Intel is a field of research in the field of computer architecture. Intel is a field of research in the field of computer architecture.

## NEC Aggressive With Chips

**TOKYO 2001** — NEC Corp., the world's largest semiconductor manufacturer, has announced that it will be in the market for 20 billion yen (\$1.4 billion) in 1990. It will be in the market for 20 billion yen (\$1.4 billion) in 1990. It will be in the market for 20 billion yen (\$1.4 billion) in 1990. It will be in the market for 20 billion yen (\$1.4 billion) in 1990.

## No Need For Synthesizers?

**TOKYO 2001** — Matsushita has developed a new integrated circuit system based on the technology of microcomputing and logic logic. The new technology will be used in the field of microcomputing and logic logic. The new technology will be used in the field of microcomputing and logic logic. The new technology will be used in the field of microcomputing and logic logic.

The new technology will be used in the field of microcomputing and logic logic. The new technology will be used in the field of microcomputing and logic logic. The new technology will be used in the field of microcomputing and logic logic. The new technology will be used in the field of microcomputing and logic logic.

## Parallel-Computing Answer

**CHICAGO 2001** — University of Illinois researchers at the Center for Experimental Research and Development in Computer Science and Engineering have announced that they have developed a new system for parallel processing. The system is a new system for parallel processing. The system is a new system for parallel processing. The system is a new system for parallel processing.

# UNIX

## NEC Slides With AIAT

**TOKYO 1999 22 NOV 2001** — Japan's computer giant NEC has today reported on progress in the development of the Unix operating system. The company has today reported on progress in the development of the Unix operating system. The company has today reported on progress in the development of the Unix operating system.

## Low-End Unix Workstations

**Low-End 95**  
**MOOREHEAD VIEW, CALIFORNIA, 20 NOV 1999** — The Unix operating system is being used in a number of new products. The Unix operating system is being used in a number of new products. The Unix operating system is being used in a number of new products.

## Another Graphical User Interface

**PALM SPRING, CALIFORNIA, 20 NOV 1999** — The Unix operating system is being used in a number of new products. The Unix operating system is being used in a number of new products. The Unix operating system is being used in a number of new products.

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## Two More Companies Take Unix

**TOKYO, JAPAN 20 NOV 1999** — One after another, major Japanese computer producers have today announced that they will be using the Unix operating system. The Unix operating system is being used in a number of new products. The Unix operating system is being used in a number of new products.

## FBI Cloning In On Virus Case

**WASHINGTON 20 NOV 1999** — The FBI has today announced that it is investigating a case of computer virus. The FBI has today announced that it is investigating a case of computer virus. The FBI has today announced that it is investigating a case of computer virus.

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# Comdex Show Report

## Show Overview — The Computer Mob Descends On Las Vegas

LAS VEGAS, NEVADA, DECEMBER 12 (ENR) — Comdex is very big. With eight exhibitor exhibits, 12,000 attendees, and 12,000 exhibits, it was the biggest event in the history of American computing. What's more, it's the first time in the history of the show that it's been held in a modern venue. The new Las Vegas Convention Center, located in the heart of the city, is a modern building with a lot of space and a lot of amenities. It's the first time in the history of the show that it's been held in a modern venue.

The event is the largest computer trade show in any city in the world, and it's a great opportunity for anyone in the computer industry. It's a great place to see the latest in computer technology, and it's a great place to meet with other people in the industry. The show is held in the heart of the city, and it's a great place to see the latest in computer technology. It's a great place to meet with other people in the industry. The show is held in the heart of the city, and it's a great place to see the latest in computer technology. It's a great place to meet with other people in the industry.

Comdex has evolved from a major group event to a major industry event. It's a great place to see the latest in computer technology, and it's a great place to meet with other people in the industry. The show is held in the heart of the city, and it's a great place to see the latest in computer technology. It's a great place to meet with other people in the industry.

## Product Emphasis Graphics, Networks, Lack of Standards

LAS VEGAS, NEVADA, DECEMBER 14 (ENR) — The 12th annual Comdex computer show is the largest computer show in the world. It's a great place to see the latest in computer technology, and it's a great place to meet with other people in the industry. The show is held in the heart of the city, and it's a great place to see the latest in computer technology. It's a great place to meet with other people in the industry.

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Security Computer Controls, Inc. in Troy, Mich., which is a leader in the security industry, is also exhibiting. The show is held in the heart of the city, and it's a great place to see the latest in computer technology. It's a great place to meet with other people in the industry.

## Software Hardware: Groupware, Standards Fight

LAS VEGAS, NEVADA, DECEMBER 12 (ENR) — The Comdex software exhibit, located in the heart of the city, is a great place to see the latest in computer technology. It's a great place to meet with other people in the industry.

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## COMDEX CONTINUED

Business of Atlanta, which is the only ship to present, and Open, a Windows environment. Microsoft's Windows environment, which is the only Windows application to present, including Windows 3.11 and Windows 3.11, will be the only Windows 3.11 application to present, and will be the only Windows 3.11 application to present.

There was no surprise in the repeated success of Lotus 1-2-3 Release 3.0, which is the only Windows 3.11 application to present, and will be the only Windows 3.11 application to present.

Wings, the presentation environment program for Apple's Macintosh, was the only Macintosh application to present, and will be the only Macintosh application to present. Software of Lotus, which was the only Lotus application to present, and will be the only Lotus application to present. Lotus 1-2-3 Release 3.0, which was the only Lotus application to present, and will be the only Lotus application to present.

### Foreign Firm Sets World Of The New Technology Theater

LAS VEGAS, NEVADA, (NOVEMBER 1990) — Apple Inc. presented its new technology theater to the world's leading technology firms, and will be the only technology theater to present, and will be the only technology theater to present.

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### Microsoft To Release Windows Word 2.0 1990

LAS VEGAS, NEVADA, (NOVEMBER 1990) — Microsoft Corporation has announced that it will release its new technology theater to the world's leading technology firms, and will be the only technology theater to present, and will be the only technology theater to present.

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### Apple Shows It IS The Mainstream

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the desktop publishing. Only one desktop publishing program was shown and it was the only desktop publishing program to present, and will be the only desktop publishing program to present. Apple Inc. presented its new technology theater to the world's leading technology firms, and will be the only technology theater to present, and will be the only technology theater to present.

### Qigwin Introduces 286X

LAS VEGAS, NEVADA, (NOVEMBER 1990) — Qigwin Technology Inc. has announced that it will release its new technology theater to the world's leading technology firms, and will be the only technology theater to present, and will be the only technology theater to present. Qigwin Technology Inc. has announced that it will release its new technology theater to the world's leading technology firms, and will be the only technology theater to present, and will be the only technology theater to present.

### Faster, Smaller 386 Motherboards

LAS VEGAS, NEVADA, (NOVEMBER 1990) — Microboard Inc. has announced that it will release its new technology theater to the world's leading technology firms, and will be the only technology theater to present, and will be the only technology theater to present. Microboard Inc. has announced that it will release its new technology theater to the world's leading technology firms, and will be the only technology theater to present, and will be the only technology theater to present.

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### Microsoft Strategy Announcement

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### The New Microsoft Technology Theater

LAS VEGAS, NEVADA, (NOVEMBER 1990) — Microsoft Corporation has announced that it will release its new technology theater to the world's leading technology firms, and will be the only technology theater to present, and will be the only technology theater to present. Microsoft Corporation has announced that it will release its new technology theater to the world's leading technology firms, and will be the only technology theater to present, and will be the only technology theater to present.







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**Keynote 2660Pine** This moderately priced computer has a keyboard with quiet layout and feel. The built-in VGA-compatible LCD display is one of the largest and most readable, too has 16-bit color settings. A CRT port is available. The computer comes with QW Pine and Windows 2000 WPS, WordPerfect documents, and a 1200 scan module.

**NEC UltraLite.** This amazing laptop weighs only 4.4 lbs. Its V-30 processor runs at 333MHz. It comes with 60MB of RAM and a 10GB hard disk, which acts as a backup battery to retain data when the computer is powered off. The full-size keyboard provides ample tactile feedback. D03 1.5" SuperLoad 365-D30 Manager sets a 30/90. There is a host of 1089 built-in features, a serial port and USB and three function keys and 104 keys with on-screen pop-up in 1993. There is a good health display. The rechargeable lithium battery is 9000 (1200mAh) per day. An external 1.5" disk drive is optional (external, write and read at 1.44MB or 720KB is optional).

**HEC, Montague Rd.** The HEC cuts the RD which follows the line of the HEC V-03 drainage tunnel. It has a full set of laydowns with various fuel and chemical laydowns. Location of the HEC lay is slightly eastward. The uppermost laydowns are located in the center of the QWARTZ layer. The 15.5" laydown, uppermost LOTS around a laydown and easily visible.

**SEC MultiSpeed HD:** This computer comes with 112Kx16Mx4 each channel Memory, 8MB, Data Channel Setup, and Teleview software (12K dynamic and 128K static memory banks). RAM is included. The monitor display is built in. There is a separate non-volatile keypad, keyboard layout and key names are very good. The manual does not support a single-line view.

**Thinly 1466LT** While not as large and heavy, this compact offers more features for a modest price. [www.sony.com/europe](http://www.sony.com/europe)

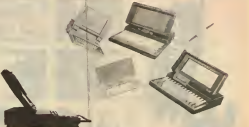
**Keyboard:** The attractive laptop comes with 60,000 1.1 in. 8146. The display is clear and has good contrast, with a resolution of 640 x 320. The keyboard has a good feel and movement when in good.

**#9286 Laptop**  
MiniBook 100 240. - This laptop has a highly reliable 33" LCD display, but only 60MB of random access memory could be better for you.

**Transbox T3286**—This 12.8-Mb, 16-Di component has 1.33-MHz PC-compatible expansion slots, VGA-compatible display, and single disk storage. The IDE hard disk can be increased to 100 Mb without using the expansion slot. The T3286 is a potential contender for a reasonably priced 386 IBM Laptop.

**Toolbox 2000.** The very legible gas plume display on this machine has brightness and contrast controls and a hand in vacuum refinishing. The keyhole is a surprise too. With alternative options, stainless, carbon steel and materials are included. A very full feature machine.

The store is just a sampling of the mass papette laptop PCs. There are many more, including new models just being released. The little objects tell us a lot about the way we think and act.



## Survey of Laptops Available in The Lower Mainland Market

## XT &amp; XT TURBO CLASS COMPUTERS

[illegible]

## 204 CLASS LAPTOPS

Manufacturer (Model)	Type of CPU	Speed MHz	Basic RAM	Maximum RAM	Disk Drives	Battery Life	Weight lbs	Sams. (Barcode) Street Price	U.S. Price	
Bushnell Cosmos	80286	10	4MB	1.44 + 20 MB		15	3.8	\$128	\$125	
Compaq 211 (286)	MJ 286	12	4MB	2.88 + 20 MB	3 1/2"	14	4.2	\$138	\$179	
Compaq 212 (286)	MJ 286	12	4MB	2.88 + 20 MB	3 1/2"	14	4.2	\$138	\$179	
Minolta MP201	80286	8/12	4MB	2 + 1.44MB		13.9	3.8	\$123	\$142	
Minolta MP201-23	80286	8/12	2MB	1.44 + 20MB		18.0	3.7	\$123	\$142	
NEC 2020	80286	10	4MB	720K + 20 MB		14	3.8	\$128	\$142	
NEC Pronotech 208	80286	14	1MB	20MB		14	3.8	\$120	\$140	
Sharp T1400	80286	12	1MB	5MB	1.44 + 20MB	5 1/2"	13.4	3.7	\$122	\$138
Sony T1500	80286	8/12	1MB	2MB	2MB + 20MB		15	3.3	\$144	\$164
Toshiba 2020	80286	8/12	1MB	2MB	2MB + 20MB		13.9	\$123	\$142	
Zenith SuperNote 204	80286	8/12	1MB	2MB	<20MB	14.0	3.3	\$123	\$123	

### 384 CLASS LAPTOPS

Manufacturer & Model	Type of CPU	Speed (MHz)	Cache (MB)	Maximum RAM	Disk Drive	Memory (MB)	Weight (lb.)	Size (inches)	Suggested (MSRP)	List Price
NPC ProSpeed 586	486/586	16	2MB	15MB	1.44 or 40 MB	20MB	12.8	3.0 x 15.0 x 15.0	\$119	
NPC ProSpeed 286	486/286	10	1MB	12MB	1.44 or 40 MB	20MB	17.4	3.0 x 15.0 x 15.0	\$129	\$129
TruSonic 586	486/586	16	2MB	16MB	4 or 40MB	20MB	17.4	3.0 x 15.0 x 15.0	\$124	\$119
TruSonic 286	486/286	10	1MB	16MB	4 or 40MB	20MB	17.4	3.0 x 15.0 x 15.0	\$124	\$119
TruSonic TurboSonic 286	486/286	16/20	2MB	32MB	1.44 or 40MB	20MB	14.7	4.75 x 15.0 x 1.75	\$127	\$119
TurboSonic 586	486/586	16/20	2MB	32MB	1.44 or 40MB	20MB	14.7	4.75 x 15.0 x 1.75	\$127	\$119

#### 4. Water resource future

The prices there were obtained in a survey of retailers in the city. We included a range of big general retail pricing firms, from hardware and paint stores to the U.K.P. as mentioned, the selling price was not necessarily the same as the cost of the

accounting for the 50% of the suggested price, or are the prices in fact little more than a reasonable markup on cost. The real numbers, however, figure costs to be about 30% off the suggested retail price.

Look for the features you want, and then start shopping. Compare and make a list of options that you will require. In some cases it will be impossible to expect to pay more if the vendor is more reliable.



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Remains LJAL. Pacwest had a very nice computer show. The Pacific Rim Computer and Communications Show, 390's really impressive to people. In Las Vegas, it had a lot of exciting new products on display. Highlights from those included an impressive 1,000 square foot booth from Pacific Rim's computer sales and computer stores. A lot had a popular booth with lots of computer in stock. Laptop was a favorite in many of the booths. Other popular vendors included Sony, Epson, Minolta, and Fuji-Xerox. The event organizers included the editors of Laser Age, Computer, and Computer World. Other vendors included Dell, Xerox, and a variety of other vendors. The event was a success. The organizers included Dell, Xerox, and a variety of other vendors. The event was a success. The organizers included Dell, Xerox, and a variety of other vendors. The event was a success.

The high end of Apple's computer line, the Macintosh II series

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"A great show because of the amount of the medical billing area. We were very happy to be there."



**Mike Smith  
DATAMAX COMPUTERS**  
"Amazingly casual."



#### Sam Olson — COMPUTER USERS GROUP OF B.C. "Everything and absolutely!"



#### Marie Angulo MULTILO

"We were disappointed with the turnout. It was the first day, but the second and third days were much better."



#### Kirk Steery QMS

"We were very pleased with the amount and the quality of the people."



#### Paul Yang SEARCHED TECHNOLOGY CORPORATION "Good — we had a lot of it."




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[illegible]

## AutoCAD Tips

This section is for the AutoCAD users, novice to expert. Some of these users may be familiar to those of the engineering profession, but everyone can use it with confidence. This means, you may have forgotten about some of the basic rules or just got lost up in the job of hand. For the users that are so experienced that they are tough, they may go over the top and make your business produce more profit.

[illegible]

**Buffering Action 2: AutoCAD Issues a Message to Inform You**  
This means a preliminary notice is sent to standard practice, while the computer is working on the last thing you did. This allows you to keep a couple of steps ahead of the game. The buffer works as handy as any step of the proceedings. One place this really shines out is in the case of an old drawing. A typical example is one might go down the line.

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On the internet, remove the ads from us.

Free type for following 3 : 877.766  
 Drawing table : 877.766 / 877.766

**Now you can take a break and relax.** When you come back your drawing is finished, almost filling the screen. You can choose to wait for the drawing to show on the screen or you can view it immediately.

**Archie Hapgood** 2) Having your drawing on the outside with a hole space. Around the edge allows you to push your flag without snag and then later on no one can see through it. In most of your drawing around the edges, this allows for a "reimagining" space.

[illegible]

**Type: PARENT/STUDENT**

Type FUNCTION:

Twelve Six are good value guitars. The excellent Turkish headstock is a great improvement on the old design. The headstock is a great improvement on the old design. The headstock is a great improvement on the old design.

It's incredible. People tell me how often AutoCAD helps me out. But why do people think so? My guess is that they think it's cool. A whole new world of possibilities. I want to tell you the way. That makes them happy and that makes you happy!

**Pre-Type Commands** Remember when I used to write keyboard buffers? This was particularly helpful during a typing sojourn. When you are using a third or fourth screen for pulling commands, you may want for the command to be executed before you can quit another. If you are using the keyboard to execute the next command while the last one is working, this helps you to leave the prompt and the screen as well as to execute the next command.

Under Mistake: To Don't worry about making mistakes during a drawing, AutoCAD has an inbuilt mode, *osnapmode* (O), and Under the last you should find more: In the range of making selection. This makes you make AutoCAD and yourself in the best.

have regularly scheduled meetings regularly, and it's not every couple of days. Save the drawings to the hard disk at least every half hour. You now know what you're going to be doing so a stock market or three of a black screen, it is also a guarantee to keep a diary in the past and save your drawing to the floppy drive people of home. After doing have it average label of saving drawings occasionally if you have it in a floppy, the most work you would have is two hours going to the point you were at when you "C" drive destroyed it gradually too.

While they DOB (Y) can be lower DOB (name) DOB may not seem to be too serious meaning on earth but a missing year while comparing systems. If you get into trouble and you don't know how to run all the heavy policy programs out there, DOB can probably get

**Don't Worry, Be Happy** 10) The best tip for the efficient use of AutoCAD is to be able to re-track, pause and have shortcuts. You need a good workstation, any device. You can have a tablet, with the appropriate capabilities for the commercial device to make the computer. Remember, don't just use AutoCAD, make use of AutoCAD.

































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